

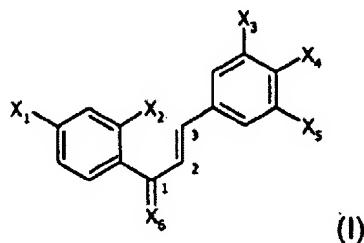
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Appl. No. 10/520,079  
Atty. Ref.: 3665-129  
Amendment  
June 18, 2010

**AMENDMENTS TO THE CLAIMS:**

Please amend the claims as follows:

Claims 1-69. (Canceled)

70. (Currently Amended) A compound of formula (I)



in which:

X<sub>1</sub> is a halogen, R1 or -G1-R1,

X<sub>2</sub> is hydrogen, hydroxy or ~~and~~ an unsubstituted alkyloxy,

X<sub>3</sub> is -R3 or -G3-R3,

X<sub>4</sub> is a -R4 or -G4-R4,

X<sub>5</sub> is -R5 or -G5-R5,

X<sub>6</sub> is oxygen,

R1, R3 and R5, which are the same or different, are an unsubstituted alkyl

having from one to seven carbon atoms,

R4 is an alkyl having from one to seven carbon atoms substituted by a group 1 substituent,

G1, G3, G4, and G5, which are the same or different, are oxygen or sulphur wherein at least one of X<sub>1</sub>, X<sub>3</sub>, X<sub>4</sub> and X<sub>5</sub> is G1R1, G3R3, G4R4 and G5R5, respectively,

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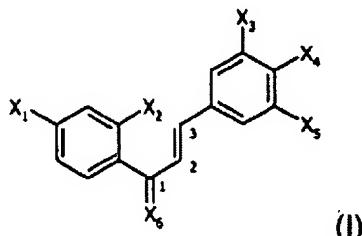
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said group 1 substituent being selected from the group consisting of -COOR<sub>6</sub> and -CONR<sub>6</sub>R<sub>7</sub>,

wherein R<sub>6</sub> and R<sub>7</sub>, which are the same or different, are hydrogen or an unsubstituted alkyl having from one to seven carbon atoms, and

the or an optical isomer, a geometric isomer, a racemate, a tautomer, a salt or and geometric isomers, racemates, tautomers, salts and mixtures thereof.

71. (Withdrawn - Currently Amended) A compound of formula (I)



in which :

X<sub>1</sub> is -G1-R1, wherein G1 is oxygen and R1 is -C(CH<sub>3</sub>)<sub>2</sub>COOR<sub>6</sub>,

X<sub>2</sub> is hydrogen, thionitroso, hydroxy, alkylcarbonyloxy, unsubstituted alkyloxy, thiol, alkylthio, alkylcarbonylthio,

X<sub>3</sub> is -R3 or -G3-R3,

X<sub>4</sub> is a halogen, thionitroso, -R4, or -G4-R4,

X<sub>5</sub> is -R5 or -G5-R5,

X<sub>6</sub> is oxygen,

R3, R4, and R5, which are the same or different, are hydrogen, or alkyl optionally substituted by a group 1 or group 2 substituent ,

G3, G4, and G5, which are the same or different, are oxygen or sulfur,

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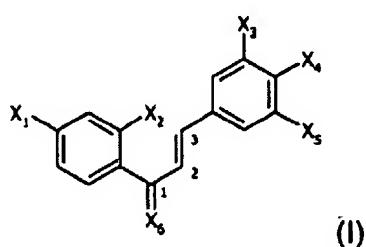
wherein none of the groups  $X_3$ ,  $X_4$  and  $X_5$  is hydrogen, and at least one of the groups R1, R3, R4 and R5 is an alkyl substituted by at least one group 1 or group 2 substituent, said alkyl being bound directly to the ring bearing the  $X_1$ ,  $X_3$ ,  $X_4$  or  $X_5$ , respectively, or being bound to the G1, G3, G4 or G5, respectively,

said group 1 substituents being selected from the group consisting of  $-COOR_6$  and  $-CONR_6R_7$ ,

said group 2 substituents being selected from the group consisting of  $-SO_3H$  and  $-SO_2NR_6R_7$ ,

wherein  $R_6$  and  $R_7$ , which are the same or different, are hydrogen, or an alkyl optionally substituted with at least one group 1 or group 2 substituent, and  
~~the optical and geometric isomers, racemates, tautomers, salts and mixtures~~  
thereof an optical isomer, a geometric isomer, a racemate, a tautomer, a salt or mixtures thereof.

72. (Withdrawn - Currently Amended) A compound of formula (I)



in which:

$X_1$  is  $-R_1$ ,

$X_2$  is hydrogen, thionitroso, hydroxy, alkylcarbonyloxy, unsubstituted alkyloxy, thiol, alkylthio, alkylcarbonylthio,

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X<sub>3</sub> is -R<sub>3</sub> or -G<sub>3</sub>-R<sub>3</sub>,

X<sub>4</sub> is a halogen, thionitroso, -R<sub>4</sub> or -G<sub>4</sub>-R<sub>4</sub>,

X<sub>5</sub> is -R<sub>5</sub> or -G<sub>5</sub>-R<sub>5</sub>,

X<sub>6</sub> is oxygen,

R<sub>3</sub>, R<sub>4</sub>, and R<sub>5</sub>, which are the same or different, are hydrogen, or alkyl  
optionally substituted by a group 1 or group 2 substituent,

R<sub>1</sub> is hydrogen, or alkyl optionally substituted by at least one group 1  
substituent,

G<sub>3</sub>, G<sub>4</sub>, and G<sub>5</sub>, which are the same or different, are oxygen or sulfur,

wherein at least one of X<sub>3</sub>, X<sub>4</sub> or X<sub>5</sub> are G<sub>3</sub>R<sub>3</sub>, G<sub>4</sub>R<sub>4</sub> or G<sub>5</sub>R<sub>5</sub>, respectively,  
none of the groups X<sub>3</sub>, X<sub>4</sub> and X<sub>5</sub> are hydrogen, and at least one of R<sub>1</sub>, R<sub>3</sub>, R<sub>4</sub> and  
R<sub>5</sub> is an alkyl group containing at least one group 1 or group 2 substituent, said alkyl  
being bound directly to the ring bound to said X<sub>3</sub>, X<sub>4</sub> or X<sub>5</sub>, respectively, or said alkyl is  
attached to G<sub>3</sub>, G<sub>4</sub> or G<sub>5</sub>, respectively,

said group 1 substituents being selected from the group consisting of -COOR<sub>6</sub>  
and -CONR<sub>6</sub>R<sub>7</sub>,

said group 2 substituents being selected from the group consisting of -SO<sub>3</sub>H  
and -SO<sub>2</sub>NR<sub>6</sub>R<sub>7</sub>,

wherein R<sub>6</sub> and R<sub>7</sub>, which are the same or different, are hydrogen, or alkyl  
optionally substituted by at least one group 1 or group 2 substituent, and

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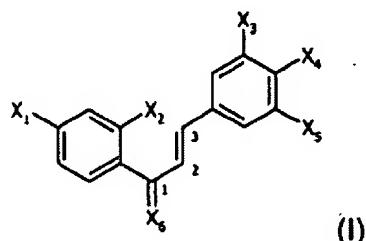
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~~the optical and geometric isomers, racemates, tautomers, salts and mixtures therefor an optical isomer, a geometric isomer, a racemate, a tautomer, a salt or mixtures thereof.~~

73. (Withdrawn - Currently Amended) A compound of formula (I)



in which :

X<sub>1</sub> is -G1R1 ,

X<sub>2</sub> is hydrogen, thionitroso, hydroxy , alkylcarbonyloxy, unsubstituted alkyloxy, thiol, alkylthio, alkylcarbonylthio,

X<sub>3</sub> is -R3 or -G3-R3,

X<sub>4</sub> is a halogen, thionitroso, -R4 or -G4-R4,

X<sub>5</sub> is -R5 or -G5-R5,

X<sub>6</sub> is oxygen,

R3, R4, and R5, which are the same or different, are hydrogen, or an alkyl optionally substituted by a group 1 or group 2 substituent,

R1 is hydrogen or a C<sub>4</sub> to C<sub>24</sub> alkyl group optionally substituted by at least one group 1 or group 2 substituent,

G1, G3, G4, and G5, which are the same or different, are oxygen or sulfur,

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wherein none of  $X_3$ ,  $X_4$  and  $X_5$  are hydrogen, and at least one of R1, R3, R4 or R5 is an alkyl substituted by at least one group 1 or group 2 substituent, said alkyl being bound directly to the ring attached to said  $X_3$ ,  $X_4$  and  $X_5$ , respectively, or said alkyl is attached to G3, G4 or G5, respectively,

said group 1 substituents being selected from the group consisting of -COOR<sub>6</sub> and -CONR<sub>6</sub>R<sub>7</sub>,

said group 2 substituents being selected from the group consisting of -SO<sub>3</sub>H and -SO<sub>2</sub>NR<sub>6</sub>R<sub>7</sub>, wherein R<sub>6</sub> and R<sub>7</sub>, which are the same or different, are hydrogen, or an alkyl optionally substituted by at least one group 1 or group 2 substituent, and  
~~the optical and geometric isomers, racemates, tautomers, salts and mixtures~~  
~~thereof or an optical isomer, a geometric isomer, a racemate, a tautomer, a salt or~~  
mixtures thereof.

Claim 74. (Canceled)

Claim 75. (Cancelled)

76. (Withdrawn) The compound of according to claim 70 or 73, wherein both G1 and G4 are sulfur.

77. (Previously Presented) The compound according to claim 70, 71, 72 or 73, wherein  $X_2$  is hydrogen.

Claim 78. (Cancelled)

Claim 79. (Cancelled)

80. (Previously Presented) The compound according to claim 70 or 73, wherein  $X_1$  is -G1-R1.

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81. (Withdrawn) The compound according to claim 70, or 73, wherein X<sub>1</sub> is -G1-R1 and G1 is oxygen.

Claim 82. (Canceled)

83. (Withdrawn) The compound according to claim 70, 71, 72 or 73, wherein X<sub>3</sub> is -R3 or -G3-R3, and R3 is an alkyl substituted by a group 1 substituent.

84. (Withdrawn) The compound according to claim 70, 71, 72 or 73, wherein X<sub>3</sub> is -R3 or -G3-R3, and R3 is an alkyl substituted by a group 2 substituent.

Claim 85. (Cancelled)

86. (Previously Presented) The compound according to claim 70, 71, 72 or 73, wherein X<sub>4</sub> is -G4-R4 group.

87. (Previously Presented) The compound according to claim 70, 71, 72 or 73, wherein X<sub>4</sub> is -G4-R4 and G4 is oxygen.

88. (Withdrawn) The compound according to claim 70, 71, 72 or 73, wherein X<sub>4</sub> is -G4-R4, G4 is oxygen , and X<sub>3</sub> is R3 or G3R3 or X<sub>5</sub> is R5 or G5R5 wherein R3 and R5, which may be different, are an alkyl groups containing a group 1 substituent.

89. (Withdrawn) The compound according to claim 70, 71, 72 or 73, wherein X<sub>4</sub> is -R4 or -G4-R4 wherein R4 is an alkyl group substituted by a group 2 substituent.

90. (Withdrawn) The compound according to claim 70 wherein X<sub>1</sub> is a halogen.

Claim 91. (Cancelled)

92. (Previously Presented) The compound according to claim 70, 71, 72 or 73 wherein X<sub>4</sub> is OC(CH<sub>3</sub>)<sub>2</sub>COOR<sub>6</sub>.

Claim 93. (Cancelled)

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94. (Withdrawn) The compound according to claim 70, 71, 72 or 73, wherein X<sub>3</sub>, X<sub>4</sub> or X<sub>5</sub> represents SC(CH<sub>3</sub>)<sub>2</sub>COOR<sub>6</sub>.

Claim 95. (Cancelled)

96. (Previously Presented) A compound selected in the group consisting of:

1-[2-hydroxy-4-chlorophenyl]-3-[3,5-dimethoxy-4-carboxydimethylmethyloxyphenyl]prop-2-en-1-one,  
1-[2-hydroxy-4-chlorophenyl]-3-[3,5-dimethoxy-4-isopropoxycarbonyldimethylmethyloxyphenyl]prop-2-en-1-one,  
1-[2-hydroxy-4-chlorophenyl]-3-[3,5-dimethyl-4-carboxydimethylmethyloxyphenyl]prop-2-en-1-one,  
1-[2-hydroxy-4-chlorophenyl]-3-[3,5-dimethyl-4-isopropoxycarbonyldimethylmethyloxyphenyl]prop-2-en-1-one,  
1-[4-chlorophenyl]-3-[3,5-dimethyl-4-tertbutyloxycarbonyldimethylmethyloxyphenyl]prop-2-en-1-one,  
1-[4-chlorophenyl]-3-[3,5-dimethyl-4-isopropoxycarbonyldimethylmethyloxyphenyl]prop-2-en-1-one,  
1-[4-chlorophenyl]-3-[3,5-dimethyl-4-carboxydimethylmethyloxyphenyl]prop-2-en-1-one,  
1-[2-hydroxy-4-bromophenyl]-3-[3,5-dimethyl-4-carboxydimethylmethyloxyphenyl]prop-2-en-1-one,  
1-[4-methylthiophenyl]-3-[3,5-dimethyl-4-tertbutyloxycarbonyldimethylmethyloxyphenyl]prop-2-en-1-one,

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1-[4-methylthiophenyl]-3-[3,5-dimethyl-4-

isopropoxy carbonyldimethylmethoxyphenyl]prop-2-en-1-one,

1-[4-methylthiophenyl]-3-[3,5-dimethyl-4-carboxydimethylmethoxyphenyl]prop-  
2-en-1-one,

1-[4-hexyloxyphenyl]-3-[3,5-dimethyl-4-  
tertbutyloxycarbonyldimethylmethoxyphenyl]prop-2-en-1-one,

1-[4-hexyloxyphenyl]-3-[3,5-dimethyl-4-carboxydimethylmethoxyphenyl]prop-2-  
en-1-one,

1-[2-methoxy-4-chlorophenyl]-3-[3,5-dimethyl-4-  
tertbutyloxycarbonyldimethylmethoxyphenyl]prop-2-en-1-one,

1-[2-methoxy-4-chlorophenyl]-3-[3,5-dimethyl-4-  
carboxydimethylmethoxyphenyl]prop-2-en-1-one,

1-[4-heptylphenyl]-3-[3,5-dimethyl-4-  
tertbutyloxycarbonyldimethylmethoxyphenyl]prop-2-en-1-one,

1-[4-heptylphenyl]-3-[3,5-dimethyl-4-carboxydimethylmethoxyphenyl]prop-2-en-  
1-one,

1-[4-bromophenyl]-3-[3,5-dimethyl-4-  
tertbutyloxycarbonyldimethylmethoxyphenyl]prop-2-en-1-one, and

1-[4-bromophenyl]-3-[3,5-dimethyl-4-carboxydimethylmethoxyphenyl]prop-2-en-  
1-one.

97. (Previously Presented) A compound selected in the group consisting of:

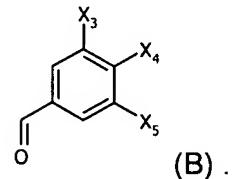
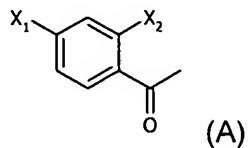
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1-[4-methylthiophenyl]-3-[3,5-dimethyl-4-carboxydimethylmethoxyphenyl]prop-2-en-1-one,

1-[4-hexyloxyphenyl]-3-[3,5-dimethyl-4-carboxydimethylmethoxyphenyl]prop-2-en-1-one, and

1-[4-bromophenyl]-3-[3,5-dimethyl-4-carboxydimethylmethoxyphenyl]prop-2-en-1-one.

98. (Withdrawn) A method for preparing a compound of claim 70, 71, 72 or 73, comprising contacting in basic or acidic medium at least one compound corresponding to formula (A) with at least one compound corresponding to formula (B):



99. (Previously Presented) A pharmaceutical composition comprising, in a pharmaceutically acceptable support, at least one compound of claim 70, 71, 72 or 73.

Claim 100. (Cancelled)

101. (Previously Presented) A pharmaceutical composition comprising, in a pharmaceutically acceptable support, at least one compound of claim 70, 71, 72 or 73, in a form for the treatment of a cerebral ischemia.

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102. (Previously Presented) A pharmaceutical composition comprising, in a pharmaceutically acceptable support, at least one compound of claim 70, 71, 72 or 73, in a form for the treatment of a hemorrhagic stroke.

Claim 103. (Canceled)

104. (Withdrawn) A method of treatment of a cerebral ischemia comprising administering, to a subject in need of such treatment, at least one compound of claims 70, 71, 72 or 73.

105. (Withdrawn) A method of treatment of a hemorrhagic stroke comprising administering, to a subject in need of such treatment, at least one compound of claims 70, 71, 72 or 73.

106. (Withdrawn) A method for neuroprotection in cerebral ischemia comprising administering, to a subject in need of such neuroprotection, at least one compound of claims 70, 71, 72 or 73.